IN THE CLAIMS

1(Currently amended). An IFN- γ production inducing agent which consists essentially of an effective ingredient capable of inducing IFN- γ production by immunocompetent cells, said effective ingredient consisting of being an interferongamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, having the following physicochemical properties:

- (1) Molecular weight $19,000\pm5,000 \text{ daltons on gel filtration and}$ sodium dodecylsulfate polyacrylamide gel electrophoresis (SDS-PAGE);
- (2) Iscelectric point (pI)
 4.8 ± 1.0 on chromatofocusing; and
- (3) Biological activity $\text{Inducing the interferon-} \gamma \text{ production by } \\ \text{immunocompetent cells;} \text{ and } \\$
- (4) Partial amino acid sequence

 Possessing a part or the whole of the amino
 acid sequence of SEQ ID NO:2, wherein the Xaa
 in SEO ID NO:2 is Met or Thr.

 $_{2}$ (Currently amended). A pharmaceutical composition comprising a pharmaceutically-acceptable carrier and an effective ingredient capable of inducing IFN- γ production by

immunocompetent cells, said effective ingredient consisting of being an interferon-gamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, having the following physicochemical properties:

- (1) Molecular weight $19,000 \pm 5,000 \text{ daltons on gel filtration and}$ sodium dodecylsulfate polyacrylamide gel electrophoresis (SDS-PAGE);
- (2) Isoelectric point (pI)
 4.8 ± 1.0 on chromatofocusing; and
- (3) Biological activity $\mbox{Inducing the interferon-} \gamma \mbox{ production by } \\ \mbox{immunocompetent cells;} \mbox{ and }$
- (4) Partial amino acid sequence

 Possessing a part or the whole of the amino
 acid sequence of SEQ ID NO:2, wherein the Xaa
 in SEO ID NO:2 is Met or Thr.

3 (Currently amended). A purified interferon-gamma (IFN- γ) production inducing protein, which is a variant of an interferon-gamma production inducing protein, also known as IGIF and IL-18, and which has having the following physicochemical properties:

(1) Molecular weight

Appln. No.: 09/373,230 Amdt. dated August 19, 2003 Reply to Office Action of March 21, 2003 19,000±5,000 daltons on gel filtration and sodium dodecylsulfate polyacrylamide gel electrophoresis (SDS-PAGE); (2) Isoelectric point (pI)

- 4.8 ± 1.0 on chromatofocusing;
- (3) Biological activity Inducing the interferon- γ production by immunocompetent cells; and
- Partial amino acid sequence (4)Possessing a part or the whole of the amino acid sequence of SEQ ID NO:2, wherein the Xaa in SEQ ID NO:2 is Met or Thr,

wherein said variant [[has]] is a sequence variant of SEQ ID NO:2 which corresponds to an [[the]] amino acid sequence of SEQ ID NO: 2, which is obtainable by replacing [[with]] at least one amino acid residue in SEQ ID NO:2 replaced with a different amino acid or by deleting or adding at least one amino acid residue deleted or added in the N-terminal region of or to the N-terminus of SEQ ID NO:2 while not substantially altering the above physicochemical property (3) properties of the protein.

4 (Previously presented). The purified protein according to claim 3, wherein said variant has at least one

amino acid residue in SEQ ID NO:2 replaced with a different amino acid residue.

5(Previously presented). The purified protein according to claim 3, wherein said variant has at least one amino acid residue deleted or added to the N-terminus of SEQ ID NO:2.

6(Previously presented). A pharmaceutical composition comprising a pharmaceutically-acceptable carrier and, as an active ingredient, the protein of claim 3.

 $7 \, (\text{Previously presented})$. A purified interferongamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, which has the amino acid sequence of SEQ ID NO:2, where Xaa represents methionine or threonine.

 $8\,(\text{Previously presented})\,.$ An interferon-gamma (IFN- $\gamma)$ production inducing agent which consists essentially of, as an effective ingredient, the protein of claim 7.

9(Original). A pharmaceutical composition comprising a pharmaceutically-acceptable carrier and, as an active ingredient, the protein of claim 7.

Claim 10 (Cancelled)

Appln. No.: 09/373,230 Amdt. dated August 19, 2003 Reply to Office Action of March 21, 2003 11 (Currently amended). A purified interferon-gamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, which has the following physicochemical properties: Molecular weight (1) $19,000\pm5,000$ daltons on gel filtration and sodium dodecylsulfate polyacrylamide gel electrophoresis (SDS-PAGE); (2) Isoelectric point (pI) 4.8 ± 1.0 on chromatofocusing; Biological activity (3)

- Inducing the interferon- γ production by immunocompetent cells; and
- (4)Partial amino acid sequence Possessing a part or the whole of the amino acid sequence of SEQ ID NO:2, wherein the Xaa in SEQ ID NO:2 is Met or Thr,

and which reacts with a monoclonal antibody specific to an interferon-gamma production inducing protein having the amino acid sequence of SEQ ID NO:2 or a sequence variant of the protein having one or more of the same antigenic fragments [[of]] as in the amino acid sequence of SEQ ID NO:2 and an amino acid sequence of SEQ ID NO:2 with at least one amino acid residue in SEQ ID NO:2 replaced with a different amino acid, or at least one amino acid residue deleted or added to

the N terminus of SEQ ID NO:2, while not substantially altering the physicochemical properties of the protein.

Claims 12 and 13 (Cancelled)

14 (Previously presented). A purified interferongamma (IFN- γ) production inducing protein capable of inducing interferon-gamma (IFN- γ) production by immunocompetent cells, wherein said protein is encoded by a DNA sequence which hybridizes to an oligonucleotide probe of SEQ ID NO:5 under the hybridization conditions of 5 x SSPE, 5 x Denhardt's solution, 0.5 w/v% SDS, 100 μ g/ml denatured salmon sperm DNA, and 45°C and after being washed with 6 x SSC.

15(Original). A pharmaceutical composition, comprising a pharmaceutically-acceptable carrier and, as an active ingredient, the protein of claim 14.

 $16\,(\text{New})$. An isolated interferon-gamma (IFN- γ) production inducing protein, also known as IGIF and IL-18, which substantially retains its interferon-gamma (IFN- γ) production inducing activity even after treatment with SDS-PAGE.

17(New). A pharmaceutical composition, comprising a pharmaceutically-acceptable carrier and, as an active ingredient, the protein of claim 16.